

Contract CO1: **createOffering**

Operation: createOffering(lessonName: String, location: Location, time: Schedule, public: Boolean)

Cross References: Sequence Diagram: Process Offerings

Preconditions: - Administrator is logged onto the system

Postconditions: - An id for the new offering is generated and assigned to the new offering instance (attribute modification)
- An Offering instance o was created (instance creation)
- o.instructorId was initialized to null
- Instance o was added to the collection of offerings (association formed)

Contract CO2: **selectLesson**

Operation: selectLesson(offerId: Integer, instructorId: Integer)

Cross References: Sequence Diagram: Process Offerings

Preconditions: - Instructor is logged onto the system
- Available offerings are displayed to the system

Postconditions: - System searches offering collection to check if the offering is available
- o.instructorId is set to instructorId (attribute modification)

Contract CO3: **viewOfferings**

Operation: viewOfferings()

Cross References: Sequence Diagram: Process Offerings

Preconditions: - A user checks for public offerings

Postconditions: - A list of all offerings List<Offerings> publicOfferings was created containing all public offerings (instance creation)
- The list publicOfferings was displayed to the system